Syllabus of Fall Semester, 2018

Course Number	AE	E25230	Course Name	ENGINEERING MATHEMATICS(II)		Curriculum Division	Required Major	Section	054	
Level		2	Department	Department Aerospace Engineering		Credit	3	Accreditation Division	MSC	
Class Hours		:30(75),Wed. :30(75)	Classroom 제8공학관(항공관) 항공우주공학과 2			Design Credit	0	Design Division		
	Kyunghoon Lee		Office			E-mail				
Lecturer			Telephone			Office Hours				
Supervisory Lecturer	Kyung	phoon Lee	ee Telephone			E-mail				
Prerequisite Subject		INEERING MATICS(I)	Prerequisites							
Course Description	This course covers the following topics in engineering mathematics: 1. linear algebra: matrices, vectors, determinants, and linear systems 2. linear algebra: matrix eigenvalue problems 3. vector differential calculus: grad, div, and curl 4. vector integral calculuintegral theorems * Students with disabilities can negotiate with the Disabled Student's Academic Support Center regarding course materials and assignments.									
	No.		Course Object	tives	Educa	ation M etho	nds l	aluation lethods	Core Competencies	
Course	1	linear algebra (matrices, vectors, and determinants) and linear systems			Lecture		Midt	Midterm Exam, Quiz		
Objectives, Education Methods and Evaluation Methods	2	linear algebra (matrix eigenvalue problems)				Lecture		erm Exam, Quiz	7, 8	
	3	vector differential calculus (gradient, divergence, and curl)				Lecture		Exam, Quiz	7, 8	
	4	vector integral calculus and integral theorems				Lecture		Exam, Quiz	7, 8	
	No.		Core Competencies							
Core Competencies and Ratio	7	an ability to identify the basic knowledge of engineering by applying it to problem solving and experimental data analysis							60	
	8	an ability to lead self-development through reflection on expertise and technical environment changes						40		

Education Methods	Lecture	Discussion	Experiment /Practice	Online	Presentation	Art/ Physical	Seminar	Research /Project	Design	Etc.		
Motrious	√											
Evaluation	Attendance	Midterm Exam	Final Exam	Assignments	Quiz	Presentation	Report	Practice	Etc.	Total(%)		
		√	√		√							
Methods	0	0 0			48					48		
	* Students with disabilities can request an extension of the exam hour, and they can take exams by getting writing assistance or by using a computer.											
Requirements												
for												
Evaluation	Complete de la comple											
Textbooks and References	Requir Textbo	l ⊢rw	Erwin Kreyszig - Advanced Engineering Mathematics									
	Referen	ce1										
	Reference2											
	Referen	сеЗ										
	Prescri Textbo											
	Web Pa	ge										
Weekly Schedule of Classes												
Week No.	Topics and Activities						Assignments and Other Instructions					
WEEK1	Chap 7 Li	near Alge	bra		7.	7.1, 7.2, 7.3(1/2)						
WEEK2	Chap 7 Linear Algebra						7.3(1/2), 7.4, 7.5					
WEEK3	Chap 7 Linear Algebra						7.7, 7.8, 7.9(1/2)					
WEEK4	Chap 8 Linear Algebra						7.9(1/2), 8.1, 8.2					
WEEK5	Chap 8 Linear Algebra						8.3, 8.4, 9.1(1/2)					
WEEK6	Chap 9. Vector Differential Calculus						9.1(1/2), 9.2, 9.3					
WEEK7	Midterm Exam											
WEEK8	· ·	ector Dif				9.4, 9.5, 9.6(1/2)						
WEEK9	· ·	ector Dif				9.6(1/2), 9.7, 9.8						
WEEK10	-	ector Dif				9.9, 10.1, 10.2(1/2)						
WEEK11	Chap 10. Vector Integral Calculus						10.2(1/2), 10.3, 10.4					
WEEK12	Chap 10. Vector Integral Calculus						10.5, 10.6, 10.7(1/2)					
WEEK13	Chap 10. Vector Integral Calculus						10.7(1/2), 10.8, 10.9					
WEEK14	Makeup/Re											
WEEK15	Final Exam											